**Eileen Ruth Samson Torres**

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**EDUCATION**

**Oregon Health & Science University** *Sept. 2014 - Present*

4th year student, School of Medicine, Department of Behavioral Neuroscience

Advisor: Dr. Jacob Raber

**University of California, Los Angeles**  *Sept. 2008 - June 2012*

BS in Neuroscience; Minor: English

**RESEARCH EXPERIENCE**

**Oregon Health & Science University** *Sept. 2014 - Present*

Department of Behavioral Neuroscience, PhD Candidate

Dissertation: Role of apolipoprotein E in stress-related changes in behavior and cognition

Committee: Drs. Steven G. Kohama (Chair), Jacob Raber, Miranda M. Lim, Charles E. Roselli

* Assesses spatial memory and anxiety-like behavior in mice expressing human apolipoprotein E exposed to chronic variable stress
* Explores the interaction between apolipoprotein E isoform and its primary receptor, low-density lipoprotein receptor in the brain using Western blot and immunohistochemistry
* Integrates collaborative effort with Dr. Andrea DeBarber at the OHSU Sterol Analysis Lab to determine alterations in cholesterol metabolism in stress-exposed rodent brains
* Collaboration with Dr. David Kinzie at the OHSU Intercultural Psychiatry Program to expand human subject research involving PTSD and apolipoprotein E to include other ethnicities, namely Vietnamese and Cambodian refugees

**University of California, Los Angeles**

Department of Neurology, Laboratory of Dr. Marie-Francoise Chesselet

Laboratory Assistant II *July 2012 - July 2014*

Laboratory Assistant I *Dec. 2009 - July 2012*

Student researcher *June 2009 - July 2012*

* + Assessed motor and non-motor symptoms in mouse models of Parkinson’s Disease and Huntington’s disease during long-term aging studies
* Maintained mouse colonies used for neurodegenerative research, including updating records and genotyping animals and managed laboratory supplies
* Trained students to perform immunohistochemistry, PCR, mouse handling, and data analysis

**LEADERSHIP ROLES**

* Student Representative, OHSU Graduate Program Steering Committee  *Feb. 2017 – present*
* OHSU Alliance for Visible Diversity *Dec. 2016 – present*
* OHSU Research Week Committee *2016 – present*
* OHSU Research Week Student Sub-Committee *2015 – present*
* Vice-Chair, Behavioral Neuroscience Student Group at OHSU *2016 – 2017*

**TEACHING EXPERIENCE**

Oregon Museum of Science and Industry *Oct. 2015 - Present*

Volunteer Educator in the Life Science Lab and OMSI After Dark

Portland State University: BEHN Teaching Practicum *Winter 2017*

* Designed and taught 4 lectures covering stress and cognition research using rodent models.
* Led class discussions and graded individuals on written exam.

**PUBLICATIONS**

**Peer-reviewed**

* Johnson LA, **Torres ER**, Impey S, Stevens JF, and Raber J. Apolipoprotein E4 and Insulin Resistance Interact to Impair Cognition and Alter the Epigenome and Metabolome. *Sci Rep.* 2017 Mar 8;7:43701. doi: 10.1038/srep43701.
* McGinnis GJ, Friedman D, Young KH, **Torres ER,** Thomas CR Jr, Gough MJ, Raber J. Neuroinflammatory and cognitive consequences of combined radiation and immunotherapy in a novel preclinical model. *Oncotarget.* 2017; 8(6):9155-9173.
* Weiss JB, Weber SJ, **Torres ER**, Marzulla T, Raber J. Genetic inhibition of Anaplastic Lymphoma Kinase rescues cognitive impairments in Neurofibromatosis 1 mutant mice. *Behavioural brain research.* 2017; 321:148-156.
* Magen I, **Torres ER,** Dinh D, Chung A, Masliah E, Chesselet M-F. Social Cognition Impairments in Mice Overexpressing Alpha-Synuclein Under the Thy1 Promoter, a Model of Pre-manifest Parkinson's Disease. *J Parkinsons Dis.* 2015;5(3):669-80. doi: 10.3233/JPD-140503.
* Magen I, Fleming SM, Zhu C, Garcia EC, Cardiff KM, Dinh D, De La Rosa K, Sanchez M, **Torres ER**, Masliah E, Jentsch JD, Chesselet MF. Cognitive deficits in a mouse model of pre-manifest Parkinson’s disease. *Eur J Neurosci.* 2012 Mar;35(6):870-82. doi: 10.1111/j.1460-9568.2012.08012.x.

**Submitted and under review**

* **Torres ER**, Akinyeke T, Duvoisin RM, Meshul CK, and Raber J. Effects of sub-chronic MPTP exposure on behavioral and cognitive performance of wild-type and mGlu8 knockout female and male mice.
* Johnson LA, **Torres ER**, Impey S, Weber S, Patel E, Akinyeke T, Alkayed NJ, and Raber J. Apolipoprotein E4 Mediates Insulin Resistance-Associated Cerebrovascular Dysfunction and the Post-Prandial Response.

**SCHOLARSHIPS AND AWARDS**

* Nicholas L. Tartar Research Fellowship *2016*
* **IBANGS Young Investigator Travel Award for the Genes, Brain and Behavior meeting *2016***
* National Institute on Drug Abuse Predoctoral Training Grant *July 2015 - Present*
* Brain Research and Semel Institute Student Travel Award for Society for Neuroscience *2010*
* UCLA Alumni Award (Recurring recipient) *Sept. 2009 - Sept. 2012*
* SPS Technologies Scholarship (Recurring recipient) *Sept. 2009 - Sept. 2011*

**PROFESSIONAL MEMBERSHIPS**

* Student member of the International Behavior and Neural Genetics Society  *2016*
* Student member of the International Behavioral Neuroscience Society  *2016*
* Member of the American Association for the Advancement of Science *June 2015 - Present*

**ORAL PRESENTATIONS**

* **Torres, ER**, Patel, E, Akinyeke, T, Pappu, A, DeBarber, A, and Raber, J. **(2017).** Role of Apolipoprotein E Isoform in Chronic Variable Stress-related Changes in Behavioral and Cognitive Performance. *OHSU Research Week. Portland, OR.* (Short Talk).
* **Torres, ER,** Weber, S., Mulford, A., Raber, J. **(2016).** ApoE Isoform- and Sex-dependent Effects of Methamphetamine Exposure in Chronic Variable Stressed Mice. *International Behavioral and Neural Genetics Society Conference*. *Bar Harbor Maine.* *OHSU Research Week. Portland, OR.* (Poster).
* **Torres ER,** Johnson LA, Kugelman, Morre J, Stevens JF, Raber J. **(2015).** Metabolomic Analysis of High-Fat Diet-Induced Effects in the CNS of Human ApoE Mice. *NeuroFutures Conference, Portland, OR.* (Poster).
* Mann A, Williams I, Pancek M, Watson M, **Torres ER**, De La Rosa K, Lee S, Zhu C, Muchowski P, Schwarcz R, and Chesselet M.-F. (**2013**). Inhibition of the kynurenine 3-monooxygenase as a therapeutic target in the Thy-1 a-synuclein mouse model of Parkinson's disease. *Neuroscience Poster Day and CSPD West Coast Symposium on Parkinson’s Disease, UCLA, CA; Society for Neuroscience, San Diego.* (Poster; presented in place of first author).
* **Torres ER,** Zelikowsky M, Richter F, Hean S, Masliah E, Chesselet M-F and Fanselow M. **(2013).** Potential Role of mGluR5 and Alpha-Synuclein Pathology in the Amygdala in Enhanced Fear Response in a Mouse Model of Synucleinopathy.*Undergraduate Science Poster Day and Neuroscience Undergraduate Poster Day, UCLA, CA.* (Poster)
* **Torres ER,** Zelikowsky M, Richter F, Hean S, Masliah E, Chesselet M-F and Fanselow MS. **(2010).** Mice overexpressing human alpha synuclein under the Thy1-promotor show increased fear conditioning and altered responses in anxiety related behavior*. Society for Neuroscience, San Diego, CA. Annual Neuroscience Poster Session, Annual CSPD Undergraduate Poster Session, UCLA-Oxford Summit on Parkinson’s Disease, and Annual Neurology and Neuroscience Trainee Poster Session for UCLA Alumni Day, UCLA, CA.* (Poster)
* **Torres ER**, Hean S, Cardiff K, de la Rosa K, Richter F, Fleming S and Chesselet M-F. **(2009).** Neuroprotective Assessment of Motor Impairments in a Genetic Mouse Model of PD. *Annual CSPD Undergraduate Poster Session, UCLA, CA.* (Poster)